The characters on the cover are the official Chinese title of "China: 7000 Years of Discovery" and translate into English as "The Exhibition of Ancient & Traditional Chinese Technology"

Aims and Objectives

The basic goal of the Ontario Science Centre is to promote widely among the general public an understanding of science and technology, past, present and future by:

1. Developing systems for increasing public interest.
This includes communicating to the public a clear notion of how science, including modern medicine and technology, affects their daily lives; attempting to remove the psychological barriers that often make science appear intimidating to the non-expert; making science education accessible to the public outside the formal education system.

2. Being a high-profile, well-attended tourist attraction.
This includes creating revenue (particularly foreign exchange) to contribute towards the Ontario economy. It also means creating the kind of facilities, atmosphere and image that make the Centre a pleasurable place for people to visit, particularly those not already interested in science interests.

3. Providing support and extension facilities for the education system.
The Ontario Science Centre provides educational opportunities both in support of school programs and for those who may have missed the opportunity to learn about science during their school years.

4. Playing a leading role in creative science exhibit design and presentation.
By meeting this objective, the Ontario Science Centre intends to generate income and international recognition from the sale of exhibits as well as to promote local pride in the Centre and its accomplishments.

5. Being a community centre for the discussion of science issues.
In particular, this objective is meant to encourage active public involvement in the politics of science to demonstrate that there is an important role for the non-expert in science issues and that, indeed, there are many public questions today which can only be answered by those with a measure of scientific common sense or judgement.

6. Serving as an industrial liaison facility.
By showing science applied in a social, economic context, the Ontario Science Centre aims to promote an understanding of the science and technology underlying many industrial concerns. The Centre also aims to provide a showcase for Ontario industry and to encourage industrial support for exhibits and general science education.

Strategic Objectives: 1982/83

The major objectives for this operating year 1982/83 can be summarized as follows:

Attendance

Paid	1 200 000
Schools	182 000
Outreach	250 000

Exhibit Halls
279 m² of new or renewed exhibits, primarily in the Halls of Technology, Space, Communications, and the temporary China exhibit (1400 m²).

Exhibit halls to be maintained at 87% operation and maximum of 12 spontaneous visitor complaints a year.

Temporary Exhibits
China: 7000 Years of Discovery, The Art of the Muppets, March School Break, Science Fair.

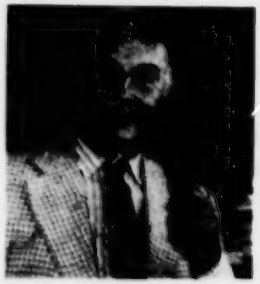
Education
6 000 school groups, 60 weekend and summer workshops and computer courses, 100 school visits including 8 to Indian communities in the extreme north of Ontario, 20 professional days for teachers and 5 Grade XIII courses for one semester (50 students).

Outreach
Programs to be delivered to 35 communities, 250 000 people including special visits of Science Circus to Montreal and tour of Quebec by the Seeing Brain exhibit.

Auditorium/Theatre
Continuation of programs, demonstrations, films, symposia, lectures and Ontario Film Theatre events.

Administration
Continue efforts to improve administrative control, support and efficiency.

Foreword



Once again the Centre had a successful year during which it launched new initiatives in Ontario. Among them was a full-time Grade XIII science and communication enrichment program supported by the Metropolitan Toronto school board. It was set up to encourage people who will get into science careers to be able to communicate with the general public and thereby have an effect on the general level of science knowledge in the community. In each semester, 25 students from across the province took four of the five credit courses offered.

The Centre's teachers increased the number of their visits outside Toronto and have almost completed the first round of visits to remote Indian schools in the northern half of the province. Every part of the province has now been visited, some centres many times. Portable exhibitions also travelled as usual in Ontario and one Seeing Brain exhibition visited nine places in Quebec at the expense of the National Museums of Canada.

Since the demand for science programs is greater than the Centre can meet, it assisted in the incorporation of a private society called F.O.S.T.E.R. Ontario (Friends of Science, Technology, Engineering and Research in Ontario). Twelve branches, from Kapuskasing (a Francophone branch) to Windsor, started local programs of popular lectures, films, debates for the public and of holiday morning classes in experimental science for three-to-fourteen-year-olds.

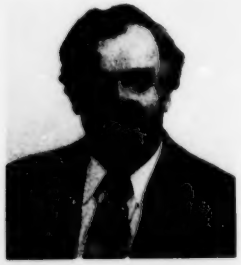
The agreement made last year with the Chinese enabled the Centre to stage the largest cultural exhibition ever held in Canada. Following several staff exchanges, the Centre successfully mounted an exhibition on traditional Chinese science and technology. Interest was greatly increased by the presence of 18 highly skilled Chinese artisans who demonstrated techniques, many of which were the forerunners of our own science. Between May 1 and October 31, 1982, over 1 150 000 visitors attended, including many classes of Ontario schools who were admitted without charge and large numbers of tourists and distinguished visitors from over 50 countries. Gate receipts of over $3 000 000 not only paid for the exhibition in Toronto, but gave the Chinese a profit with which they purchased $400 000 worth of Ontario Science Centre exhibits built by Ontario industries. The Chinese also paid to send staff from the Centre to Beijing to guide the Chinese in the maintenance and demonstration of the Centre's exhibits. Visitors wrote comments on more than 59 000 "Tell us what you think" forms. The majority of them indicated enthusiasm for the exhibition. Over 10 000 commented on its educational value. Besides teaching much science, the exhibition generated very warm feelings between visitors and the Chinese demonstrators whose work was explained through interpreters. The Chinese exhibition is now touring American cities.

Other countries expressed interest in the Centre's exhibitions. An agreement was signed to exchange staff with the large new Musée de la Villette now under construction in Paris, and other negotiations are underway to sell copies of the Centre's exhibits to Japan and other countries of the Pacific Rim, Middle East, Europe and North America. These exhibits are made under licence by Ontario industry.

Newscience *is the Centre's monthly newspaper. It is given away to visitors at the Centre and distributed to schools, universities and a large list of individual subscribers. The editorial page of a special edition devoted to the Chinese show won awards in competitions in Toronto and in New York. In January, the Globe and Mail began to circulate Newscience once a month as an insert in its national edition. Including copies distributed by the Centre, the circulation reached 450 000 copies a month. Other inquiries have begun into selling other publications produced in the Centre.*

Plans were developed to introduce new exhibits about computers, robotics and other high technology at the Centre and in the exhibitions which travel around Ontario. These travelling shows will be increased for the Ontario Bicentennial.

J. Tuzo Wilson



The Honourable Susan Fish
Minister of Citizenship and Culture
Queen's Park
Toronto, Ontario

Dear Minister,

The period 1982-1983 was marked by the Centre's extremely successful China Show. The Trusteees did their utmost to promote this unique exhibition among their own circle of contacts, unofficially bringing a great number of visitors to the Centre.

During the Centre's lowest attendance period (January-February) the Muppets were accommodated in the Centre's Great Hall. The Board adopted the staff's proposal to allow the Muppets to occupy the Great Hall without charge. The show was conducted at the expense of the Muppets organization and the Centre benefited with increased attendance.

Another subject of keen concern to the Board was a possible transfer by the Ministry from Schedule I to Schedule III, providing the Centre with greater autonomy and financial control. Top Ministry officials met with the Trustees, agreeing that the time had come to make this significant change. Lively discussions took place on some of the implications which might result from such change, and eventually application for transfer was made to Management Board of Cabinet. Final negotiations have yet to be completed.

This fiscal year the Board lost the services of four valuable members through retirement procedures. The Trustees were saddened by the death of the former Premier, the Honourable John P. Robarts, who made a great contribution to the existence and success of the Centre.

Some of our Board members have received personal recognition, bringing added honour to our Board. Trustee Ronald C. Merriam was elected Chairman of the Board of R.L. Crain Inc. in Ottawa. Trustee C. William Daniel was made Officer of the Order of Canada and Dr. J. Tuzo Wilson, our Director General, was honoured by Yale and McMaster Universities, the Royal Society of Canada, the Royal Swedish Academy of Sciences and the Royal Belgian Academy.

The Board is grateful to Trustee Edna Gardner, who has chaired the Food Liaison Committee throughout its tenure and has represented the Centre through difficult negotiations.

Discussions with the Japanese, who are planning to purchase a Science Circus for $700 000, are nearing completion. Other international projects are being considered by the Board which should prove helpful to the Province of Ontario.

My Board continues its keen interest in the Centre's role as a tourist attraction and educational institution and many members attended the first graduation ceremony of the new Science School and the official openings of the China and Muppet Shows. With these few highlights, Minister, it is my honour to present to you the Annual Report for the fiscal year 1982-1983 on behalf of the Board of Trustees.

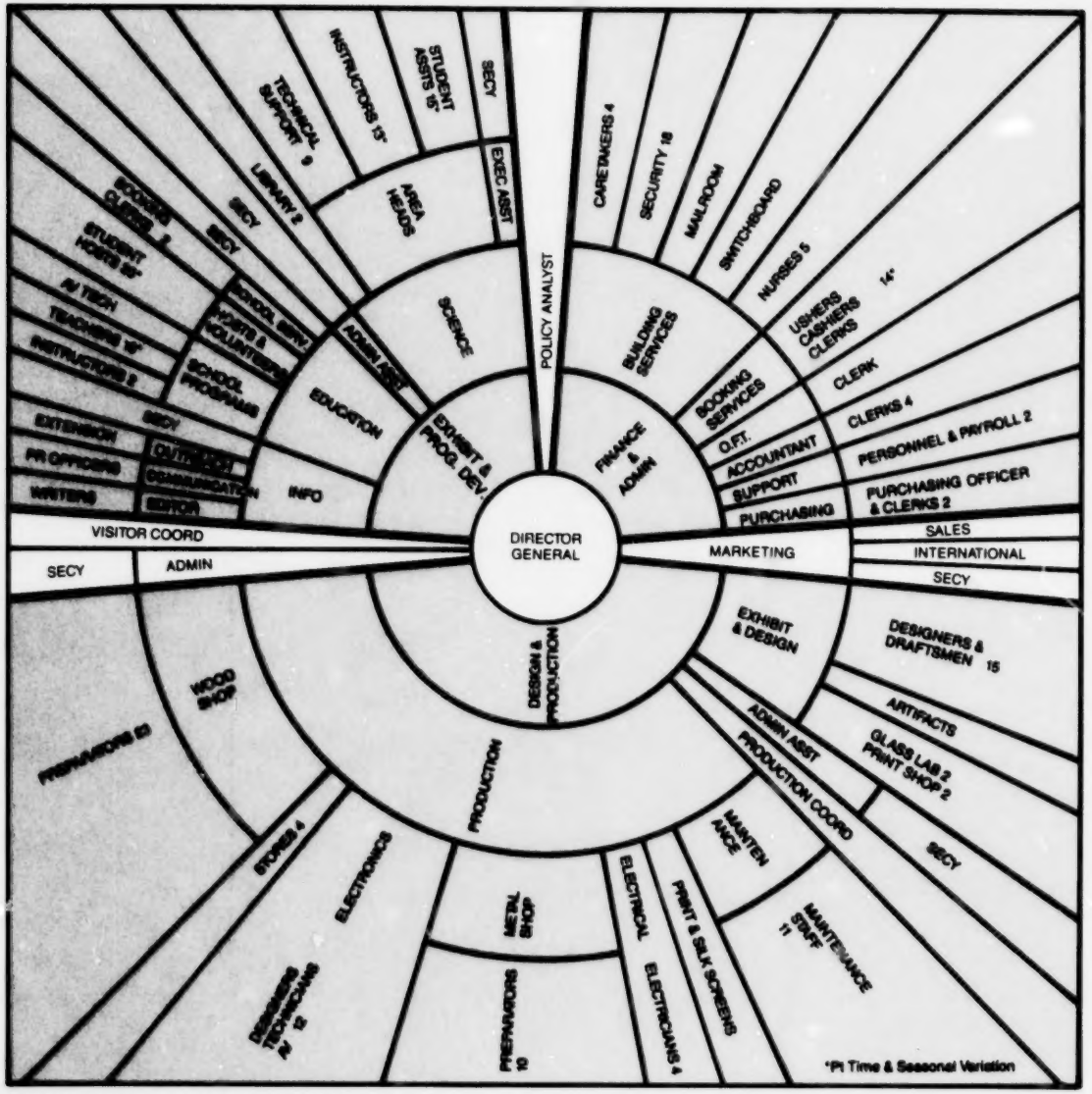
Respectfully yours,

Leonard Reilly

Leonard M. Reilly
Chairman, Board of Trustees

Science Centre Staff Organization April '82 – March '83

(Ministry of Citizenship & Culture component)



Major reorganization was begun during this fiscal year.

Science Centre Staff*

Ministry of Citizenship & Culture	210
Ministry of Government Services Property Management Branch	33
Modern Building Cleaners	22
Metro Parks Department	8
Multi Foods	80
Science City	15

**Major reorganization of staff was begun in February*

During 1982/83 the Science Centre's official complement dropped from 212 to 211. Four people retired and six others left. Five civil service staff were recruited. Seventeen Science Centre staff participated in training and development programs and courses.

For more than half a year, Science Centre staff worked alongside nine colleagues from the China Science & Technology Palace Preparatory Committee and 17 highly skilled Chinese artisans.

Ongoing Programs: Highlights

Exhibit Halls

During 1982/83, the following new exhibits were added to halls: Hall of Life — Olympic Quiz Panel, X-Ray Exhibit, Joint; Hall of Technology — PUMA, Towers of Benares, Bridge, Vax 11/750 minicomputer, Automation Show; Hall of Communications — P.D.P. II Computer, T.V. Colourizer, Waterloo Math Game, Consumer Reports, St. John Ambulance, Treat An Emergency Patient, Finger Painting Computer, Binary Clock, IBM PC, Paper Vest (Papermaking) Science Arcade — Music Synthesizer, Swedish Hologram; Miscellaneous — Science School Lab, Temporary Exhibit, System Addition, Solar House Slide Show, Freeze-Thaw exhibit.

T.V. Colourizer in the Hall of Communication lets visitors colour their black and white image electronically.

Two curious Science Centre visitors are amazed at the reality of the new pulsed laser hologram in the Science Arcade.

In addition, major modifications were carried out on the following exhibits: Hall of Technology — Unimate, Engineering Renovations; Hall of Life — Flexibility Test, Green House; Hall of Communications — Linotype, Tic Tac Toe, Simulated Control Booth, Bell Mini Theatre; Science Arcade — Electricity Show; Exploring Space — Centrifugal Forces, Moon Scale; Exploring Earth — Rock Shop; Miscellaneous — Solar House.

The vibrating bridge for the Hall of Technology has now been completed and installed. Other acquisitions of large equipment for the new Hall of Technology scheduled for the future will include a large, horizontal, single cylinder steam engine.

The opening of the new Hall of Astronomy is scheduled for June 21, 1983. Work is steadily progressing with every anticipation that the Hall will be ready to open on that day.

Exhibit Sales

International sales of Ontario Science Centre exhibits totaled $506 000, including a sale of $400 000 to China. These sales are carried out under the licensing agreement with ORDCO Technology Inc.

Education

After two years of planning, the Science Centre Science School for Grade 13 students opened in September. Owing to the China Show and the special school program, Music to Gunpowder, which was developed to accompany it, regular school visits increased dramatically. An additional outreach service to schools, Science Road Shows, was launched. Some 60 schools

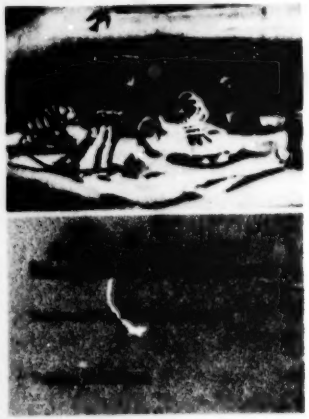
were visited between October and March. Teachers also visited eight communities in the extreme north of the province, leaving only four locations north of the 51st parallel still to be visited. At the Centre, a popular program for pre-schoolers was introduced. Another event creating considerable interest was the institution of computer classes where visitors could use real computers. A special classroom was created for this purpose.

Ontario Film Theatre and Institute

The Ontario Film Theatre organized six large international film series, including *China* (in support of the China Show), *France*, *Italy*, *Holland*, *Germany* and invited several filmmakers for discussions of their work.

The distinguished actor, writer, director, Gordon Pinsent was the recipient of the OFI's annual award for excellence in Canadian cinema.

OFI continues to provide far-ranging information, research and archival material to the increasing number of teachers, students, researchers and historians who use its facilities in their search for knowledge in film, television and now video. Last year the OFI, after



publishing several monographs during previous years, published its first complete book, *Norman McLaren, Manipulator of Movement,* by arrangement with Associated University Presses. The Ontario Film Archive was further strengthened during the year by increasing donations from the public and film organizations. In co-operation with Festival Ontario the OFI presented travelling programs in Lindsay, Sarnia and other centres.

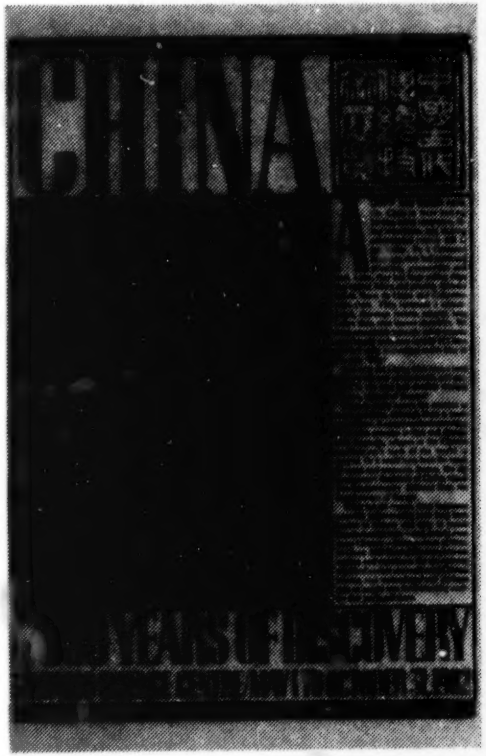
F.O.S.T.E.R. Ontario

Friends of Science, Technology, Engineering and Research in Ontario (F.O.S.T.E.R. Ontario) has continued its growth throughout the year with support from the Ontario Science Centre. An after-dinner speech by Stuart Smith highlighted the second annual meeting which was held October 29 and again hosted by the Ontario Science Centre and paid in part by a National Science and Engineering Research Council grant.

Newscience

Through the Science Centre's Editorial Department, 12 issues of *Newscience* were published. Newscience is a tabloid newspaper offering an entertaining mix of feature articles about science, science news, things to do and information about Science Centre events.

Beginning in January, 1983, *Newscience* was distributed monthly across Canada with the Globe and Mail, giving *Newscience* a circulation of 450,000.



During the run of the China Show; each edition of **Newscience** *carried a special pullout section on the show. The title page of this section won Awards of Merit from both The Toronto Art Directors Club and the Art Directors Club of New York.*

Oscott

OSCOTT is the name of the series of special hands-on programs for children ages 3 to 14 on Saturdays and holidays. The development of these programs was begun by staff of the Centre, but during the year members of the private charitable society F.O.S.T.E.R. Ontario and others became increasingly involved. For this reason and to facilitate transfer of these programs to other localities and science centres in Ontario F.O.S.T.E.R. Ontario undertook the operation and staffing of these programs.

Outreach

The Science Centre continued to serve the parts of Ontario outside Metro Toronto both with major travelling exhibitions, such as the Science Circus and Bodyworks and with smaller exhibitions tailored to shorter periods of time. One copy of the Seeing Brain exhibit toured Francophone centres in Ontario, while another completed a tour of British Columbia and moved to Quebec.

Special Events: Highlights

Metro Toronto Science Fair, *April 14-19*
This year's fair for budding scientists was for students from Grades 7 to 13. Competitions for prizes were in various categories including math and physical sciences; life sciences; applied sciences and engineering.

Visit by French Prime Minister, *April 24*
French Prime Minister Maurois is seen in the photo below with Claude Faubert (right) of Science Centre staff viewing the display of human fetuses in the Hall of Life.

Centre Arts Programs, *Summer '82*
Four arts courses provided an opportunity to explore science through art and vice versa. The courses covered painting, stained glass, calligraphy and batik.

Computer Programs, *Summer '82*
These continuing education courses offered instruction for complete beginners and those who wished to extend their computer skills in areas such as home accounting, music and word-processing.

Can we Survive in our Nuclear World?, *August 27*
Mutual nuclear deterrence and the effects of nuclear technology on the health of mind and body were among the topics discussed at this one-day forum. Included was the now famous film featuring Dr. Helen Caldicott, *If You Love This Planet*.

IMF Delegates Visit Science Centre, *September 6-9*
Finance ministers, economic advisers, bankers and other delegates to the annual meeting of the International Monetary Fund visited the Science Centre during their three-day stay in Toronto. Delegates from more than 40 countries signed the visitors' book.

Scientific American Annual Meeting, *September 14*
This year, the publishers, editors and business managers of the U.S. edition of Scientific American chose the Science Centre for their annual meeting with their counterparts from the magazine's foreign language editions throughout the world.

Owl Paper Plane Contest, *October 2*
Regional winners of *Owl* magazine's Great New Airplane Building Contest were flown to Toronto by CP Air for the final fly-off and a chance to meet other plane designers. While in Toronto they were guests of Cara Inns.

National Tourbrokers Reception, *November 8th*
2 000 members of North America's largest tourbrokers' association spent an evening at the Science Centre on the occasion of their annual meeting which this year was held in Toronto. Y'all come back now, yuh hear!

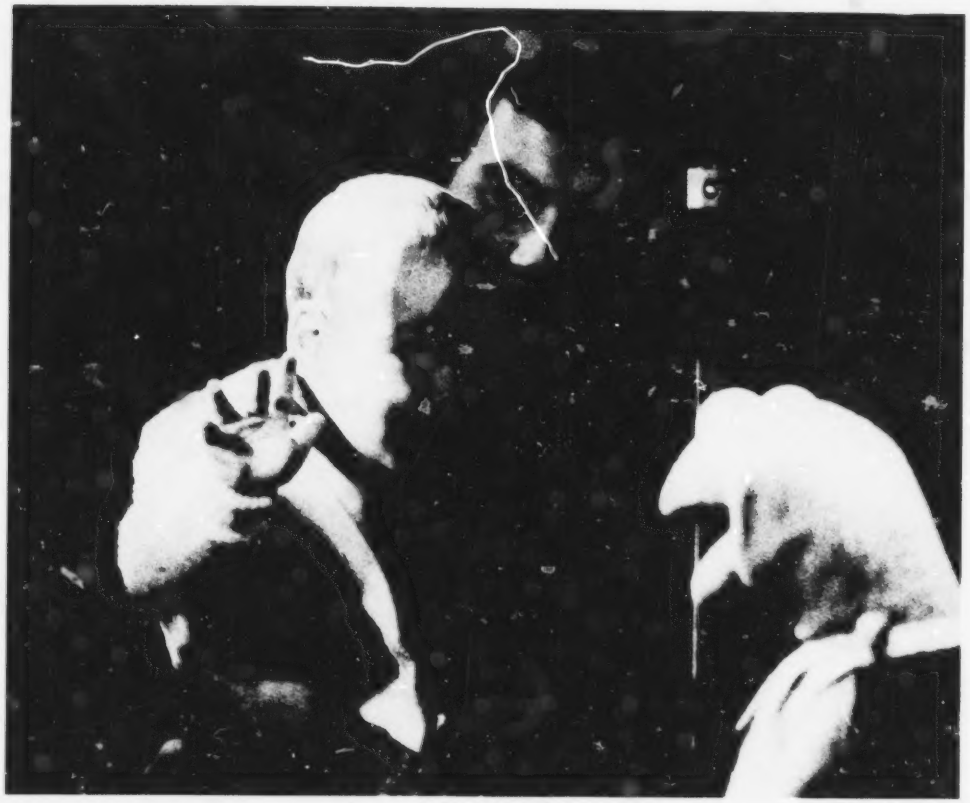
Sound of Toronto Jazz, *November-March*
Toronto's best jazz, absolutely free, was presented on selected Mondays over the winter in the main auditorium. The concerts were hosted by Ted O'Reilly of CJRT-FM, which co-sponsors the series.

Entomologists Annual Meeting, *November 29-December 3*
Bug talk prevailed as delegates to the annual meeting of the Entomological Societies of Canada, Ontario and America examined various aspects of the interaction between our world and the insect world.

Art of the Muppets Show, *December 27-February 13*
This extensive major exhibit traced the 28-year history of the Muppets. It showed nearly 100 Muppet characters, with such perennial favourites as Kermit the Frog, Fozzie Bear, Miss Piggy and Big Bird of Sesame Street. The stars of the CBC-TV series Fraggle Rock made their debut at this exhibit. The show also featured a 37m² collage of actual materials used in the building of the Muppets and a puppet workshop featuring the Canadian puppeteers involved in Fraggle Rock.

Seeing is Believing, *December 29-January 8*
Centre Education staff put together this illustrated lecture/demonstration on visual perception which was presented three times daily throughout the period. Included were graphic explanations on how we see along with some surprising optical illusions.

Extra Sensory Deception, *January 31*
Well known psychic debunker Henry Gordon showed an audience of more than 600 how some so-called extra-sensory powers are in fact no more than clever conjuring. The presentation was part of a series of events presented at the Centre by F.O.S.T.E.R., the Friends of Science, Technology and Research.

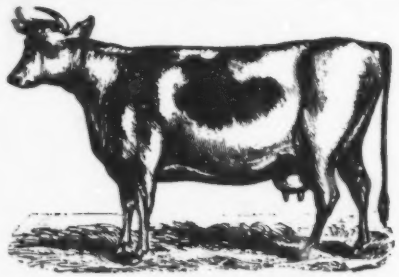


Henry Gordon appears to make a ball float magically between his hands. In fact, very fine supporting strings can just be seen.

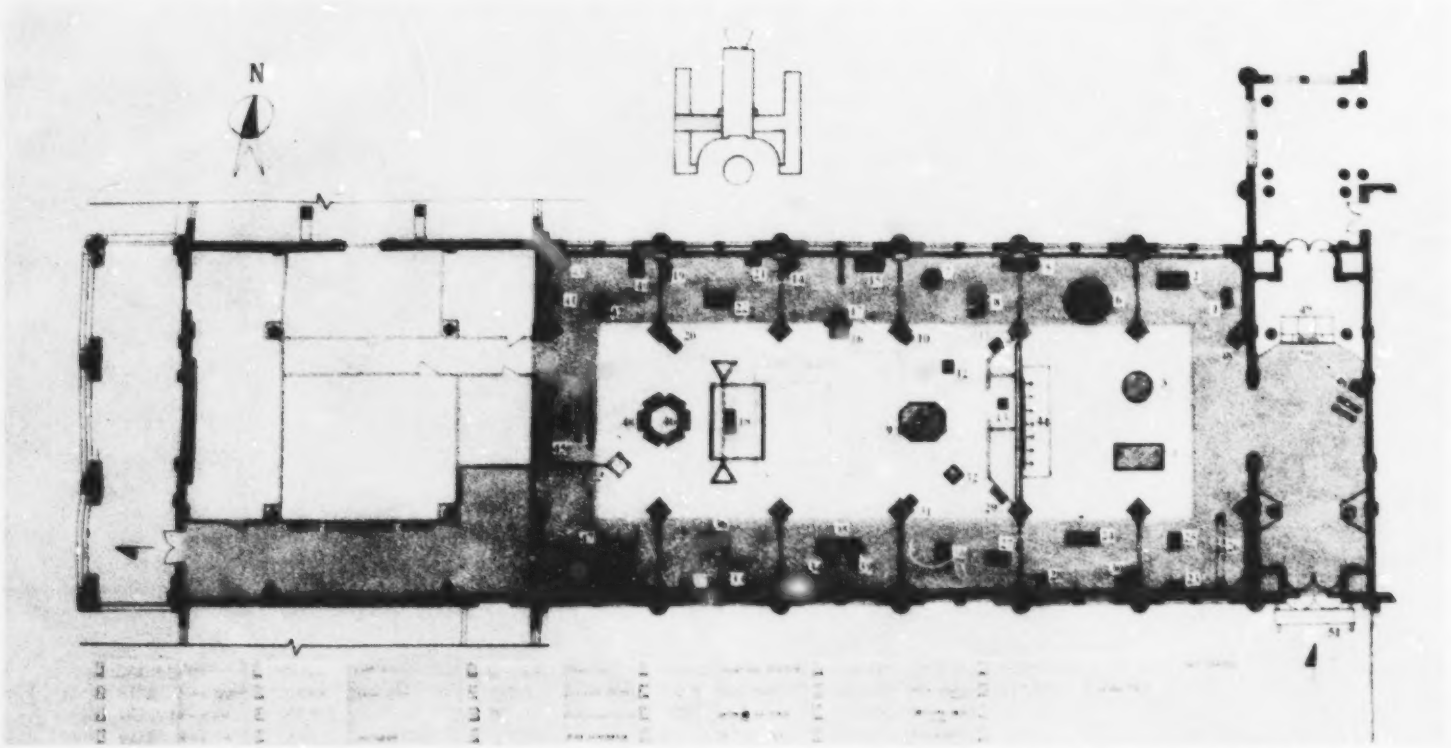
Engineering Week, *February 14-19*
A mono-rail model run by a robot was the centrepiece of the week long exhibit which also included lectures, demonstrations and a public debate on how high-tech engineering is changing our lives.

Canada Science Show Shipped to China, *February*
Exhibits purchased from the Science Centre by the Chinese with their portion of the extra revenue generated by the China Show were completed, packed and shipped to Beijing to be set up and shown as the Canada Science Show in the fall of 1983.

Alive and Well, *March 4-April 4*
Produced by Health Research Ontario, Alive and Well was an involving collection of exhibits and demonstrations designed to interest and inform the general public about recent developments in health research. Visitors were encouraged to try their hand at new surgical techniques, peer down a stomach 'telescope', test their tolerance to milk and even watch their own heart beating.



Alive and Well

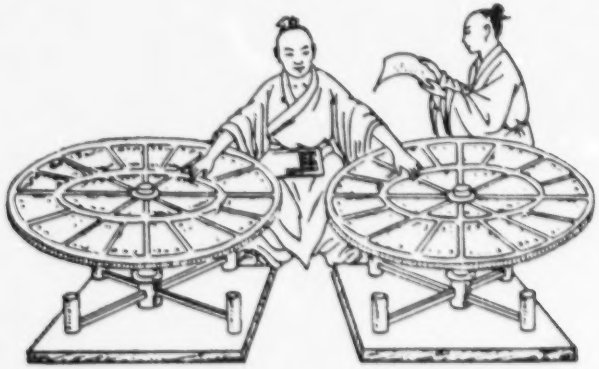


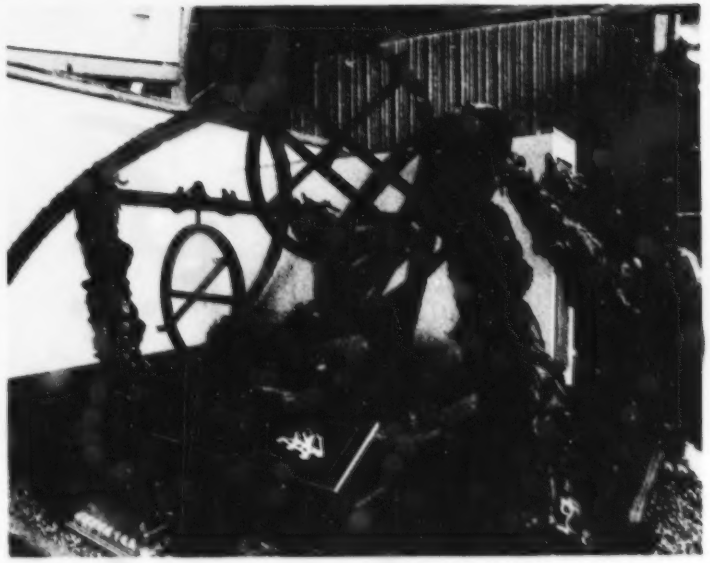
Floor plan of the Canadian Science Show; prepared by the staff of the China Science & Technology Palace Preparatory Committee in collaboration with Science Centre designers.

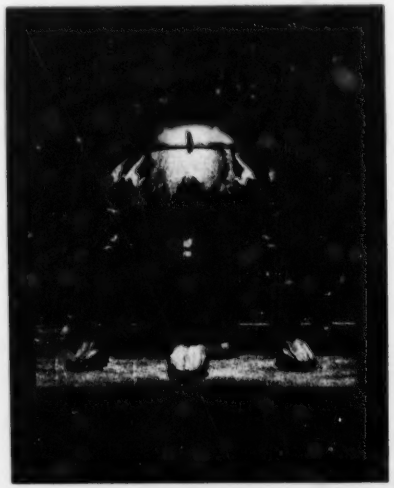
CHINA·7000 Years of Discovery

On April 30, 1982, the Honourable William G. Davis, Premier of Ontario, opened the exhibition China: 7000 Years of Discovery at the Science Centre. The show explored many of the important innovations of ancient Chinese science, in areas such as paper-making, printing with moveable type, the magnetic compass, gunpowder, porcelain, engineering, astronomy, medicine and bronze casting. Over 500 exhibits were brought from China and incorporated into a blend of craft demonstrations, Chinese musical performances and visitor-participation exhibits.

For six months, some of the finest artisans in China and Chinese Canadians and student hosts continually presented demonstrations in an intriguing and timeless Chinese setting in the Great Hall. Visitors were able to see the traditions and insights of Chinese medicine, appreciate the fascinating history and beauty of Chinese calligraphy, and see a rich array of Chinese inventions which changed the course of European science. The Chinese craftsmen demonstrated skills as diverse as bronze casting, seal carving and clay sculpting. As well as watching, visitors had the chance to try some of these and other ancient crafts.

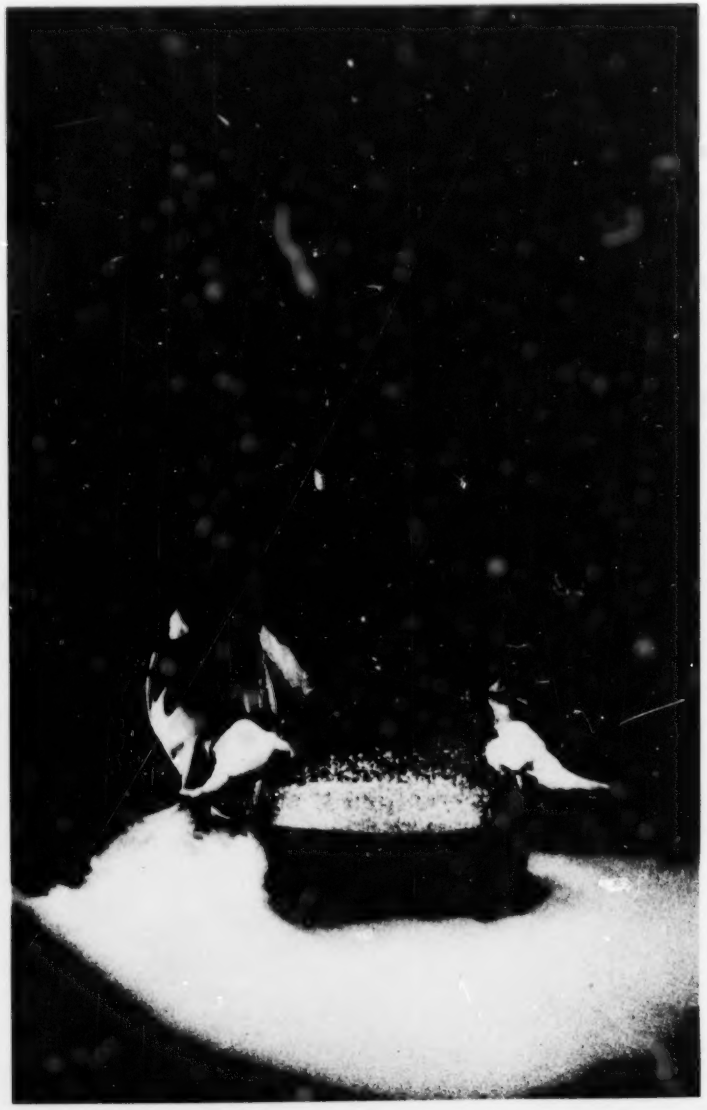






Twelve essays, each covering an area of traditional science covered by the show, were prepared by the Chinese, translated and included in a book, produced by the Science Centre which was released on the opening day of the China Show and went on to sell 11 000 copies at the Centre.

On October 6, the one millionth visitor attended the show. He was Mr. Jack Mann of Toronto. Dr. Wilson honoured Mr. Mann with a personal tour of the show; he was presented with a variety of gifts made by the Chinese artisans; and he joined the Chinese delegation and the Science Centre staff for a Chinese banquet.



By the time the exhibition closed on October 31, it had proven to be one of the most successful cultural events ever produced in Canada. Besides the goodwill generated and the continuation of an important tradition of cultural exchange between east and west, the exhibition was successful on a variety of levels.

During its six month run the exhibition attracted a record 1 150 000 visitors from Canada and around the world. The Science Centre had its best August since the Centre opened in 1969: 284 056 visitors, an increase of 18% over August 1981, and a 1.7% increase over the previous record month in August, 1974.

Visitors included Governor-General Edward Schreyer and Mrs. Schreyer who were guests of Mr. Tsai, Chargé d'Affaires of the Embassy of the People's Republic of China on September 13, 1982. Other VIP's included the Ambassador of the People's Republic of China, the Ambassadors of Japan and Sweden, the Lieutenant-Governor of Ontario and directors from many museums and science centres across Canada and the United States.

On February 11, 1983, on the eve of the Chinese New Year, the final event of the China Show took place. Susan Fish, M.P.P. St. George, then Parliamentary Assistant for the Ministry of Citizenship and Culture, paid tribute to the local Chinese community for its contributions to the show. Though the demonstrators came directly from China, an integral part of the exhibit during its six months was the 27 groups who contributed their skills as performers and helped act as ambassadors to the visiting artists and craftsmen. Ms. Fish presented representatives from these groups with gleaming red silk banners, a traditional mode of expressing thanks in the Chinese culture.

The traditional art of miniature dough doll making was demonstrated regularly throughout the show.

This Chow is one of the entrants in Chinese Dogs on Parade, a weekend show featuring eight Chinese dog breeds.

Special Chinese Peformances

During the six months of the China Show, talented members of the Chinese communities of Toronto, Guelph, Sudbury and Montreal contributed their skills as performers. Here is a list of performances that took place as an adjunct to the main exhibit:

May 1, 2	Chinese Opera Group
May 8, 9	The Tse Brothers
May 15, 16	Toronto Chinese Performing Arts Groups
May 22, 23	Toronto Chinese Chamber Orchestra
May 24	Mo Chow's Kung Fu Club
	Jin Wah Kung Fu Club
May 29, 30	Chinese Dance Workshop
June 5,6	Toronto Tai Chi Association
June 12, 13	Martin Yan (Chinese cookery)
June 19, 20	Chinese Senior Citizens Recreation Society
June 26, 27	Chinese Instrumental Music Group
July 1, 3, 4	Ling Chi Chinese Dance Group
July 2	Toronto Tai Chi Association
July 10, 11	Toronto Chinese Chamber Orchestra
July 17, 18	Chinese Folk Dance Group of Toronto
July 24, 25	Unison Choir
August 1, 2	Sudbury Chinese Community Dance Group
August 7, 8	Ling Chi Chinese Dance Group
August 14, 15	Chinese Chamber Orchestra Children
August 21, 22	Tofu Demonstration
August 28, 29	Chinese Folk Dance Group of Toronto
September 4, 5, 6	Chinese Folk Dance Group of Montreal
September 11, 12	Chinese Instrumental Group of Toronto
September 18, 19	Chinese Dance Workshop
September 25, 26	Chinese Melody Choir from Guelph
October 2, 3	Chinese Dogs on Parade
October 9, 10, 11	Four Seas Club Drama Group
October 16, 17	Flower Drum Singing
October 23	Chinese Storytelling
October 24	Toronto Tai Chi Association
	Ling Chi Chinese Dance Group
	Toronto Chinese Chamber Orchestra
October 30, 31	Hong Luck Kung Fu Club

Governor General Ed Schreyer examines a piece of fabric produced on the two man loom that was demonstrated throughout the six month exhibition.

Comments on the China Show

Thousands flock to China show

Silkworms and ancient dragons have brought line-ups and traffic jams to the Ontario Science Centre this month.

Daily attendance at the Don Mills Rd. centre is about 40 per cent higher than last May as visitors wait up to 25 minutes to see craft demonstrations, inventions and antique weapons in the exhibit, China: 7000 years of discovery.

The show attracted a weekend crowd of more than 38 000, with 15 000 last Sunday. More than one million visitors are expected to see the exhibit during its six-month stay.

Toronto Star, May 28, 1982

Exposition sur la Chine au Centre des Sciences de l'Ontario

Au Centre des Sciences de l'Ontario, reconnu de longue date pour son excellence, aura lieu cet été une exposition qui sera peut-être l'une des plus impressionnantes organisée à ce jour au musée.

La Presse Montreal, Que., March 27, 1982

The wonders of China

The next time you push a wheelbarrow, ***remember the Chinese used this vehicle 1000 years before it appeared anywhere else. They used the wheel to help them carry heavy loads. They also used it for a potters wheel to make dishes. Many times they used it for wheeled carts. The Chinese invented*** block printing. ***They carved words on a block of wood, brushed ink on the words, and pressed paper over them. This is how they printed the*** first books ***we know of. We can see what a talented country China really is.*** By: Matt Shuwera, Grade 4

Peterborough Examiner, November 9, 1982

A feast of oriental science

The hunt began in 1980 as scientists and historians from Peking descended upon the towns and villages of China in search of the scientific past. In the province of Szechwan they discovered weavers who possessed the near-forgotten skill of operating the two-man drawloom. From the far reaches of Mongolia, they gathered more than 50 musical instruments, such as the horse head fiddle and the sheng (a reed organ), finely designed out of rare woods and snakeskin. And in Peking factories they hired craftsmen to fashion replicas of 1 000-year-old incense-burning clocks, while in Jiangxi province they commissioned "dragon backbone" irrigation pumps. By March of this year, all was ready. Ten giant container bins were loaded aboard ships in Shanghai. Destination: Toronto. This week, the Ontario Science Centre (OSC) will open its doors upon one of the grandest exhibits of traditional Chinese science and technology ever to cross the Great Wall. China: 7000 Years of Discovery ***will afford the projected one million visitors who step into the OSC's Great Hall over the next six months an unprecedented glimpse of Chinese inventiveness.***

Maclean's magazine, May 3, 1982

Chinese exhibit is a dazzler!

Today we salute the biggest hit show in town – and you won't find it on stage or screen. It's at the Ontario Science Centre, ***where Dr. J. Tuzo Wilson says the Chinese Exhibition is enriching our lives, our reputation, and the public purse.***

"Beyond our wildest expectations," is the word from the Centre's director-general after the exhibition's first three weeks.

Toronto Star, May 21, 1982

Toronto exhibit designed to provide fun for viewers

TORONTO – Even Marco Polo could not have been more enthusiastic about the wonders of China than Mike Gauthier.

The 12-year-old from Michigan frankly admired the world's oldest and most beautiful seismograph, the working replicas of the ancient "dragon backbone" irrigation pump and the lodestone spoon that acts as a magnetic compass.

But he really waxed eloquent over the two-stage "fire-dragon" rocket, a 700-year-old precursor of the modern-day torpedo.

"That was especially neat. That was the best," he said.

The Honolulu Advertiser, Honolulu, Hawaii,
May 27, 1982

There's a world of Chinese art and history to explore at a pioneer exhibition in Toronto with a talented crew of Oriental craftsmen to show the way.

ROLL OVER, Gutenberg. Shake hands with Bi Sheng. *About 400 years before Gutenberg invented movable type and revolutionized the West, Bi Sheng did the same in China, and he is but one of the Eastern pioneers who can lay rightful claim to inventions otherwise set aside for the West.*

Roll over Roger Bacon. Meet the Chinese alchemists. *In the first century before Christ, while searching for the secret to eternal life, they found "fire medicine." That was gunpowder, for which Bacon is given credit by some Westerners.*

The Buffalo News Magazine June 6, 1982

Financial Statements
for the year ended March 31, 1983

Office of the Provincial Auditor

Parliament Buildings
Queen's Park
Toronto, Ontario
M7A 1A2

To the Board of Trustees and
to the Minister of Citizenship and Culture.

I have examined the balance sheet of The Centennial Centre of Science and Technology as at March 31, 1983, the statement of operations and retained income, and the statement of special purposes fund receipts, expenditure and fund balance for the year then ended. My examination was made in accordance with generally accepted auditing standards, and accordingly included such tests and other procedures as I considered necessary in the circumstances.

In my opinion, these financial statements present fairly the financial position of the Centre as at March 31, 1983 and the results of its operations for the year then ended in accordance with the basis of accounting described in note 1 to the financial statements, applied on a basis consistent with that of the preceding year.

A report on the audit has been made to the Board and to the Minister.

D.F. Archer

Toronto, Ontario,
August 19, 1983

D.F. Archer, F.C.A.,
Provincial Auditor.

Balance Sheet

as at March 31, 1983

Assets	1983 $	1982 $
Operating		
Cash	3,675	2,975
Accounts receivable – trade and other	96,179	42,916
Prepaid expenses	17,116	31,969
Inventory of general stores and small tools (note 1c)	71,621	76,155
Fixed assets, at nominal value (notes 1d, 2 and 3)	1	1
Due from Province of Ontario (note 1b)	92,240	—
	280,832	154,016
Special purposes fund		
Cash and short term deposits	205,859	47,888
	486,691	201,904
Liabilities, Equity and Fund Balance		
Operating liabilities and equity		
Accounts payable and accrued liabilities (note 1a)	209,234	40,432
Due to Province of Ontario (note 1b)	—	37,452
	209,234	77,884
Retained income	71,598	76,132
	280,832	154,016
Special purposes fund balance (note 5)	205,859	47,888
	486,691	201,904

See accompanying notes and schedule to financial statements.

On behalf of the Board of Trustees:

Leonard M. Reilly
Chairman

Member

Statement of Operations and Retained Income

(formerly Statement of Income, Expenditure and Surplus) for the year ended March 31, 1983

	1983 $	1982 $
Income		
Fees – entrance	1,824,789	1,226,324
– China Show surcharge	1,947,713	—
– parking	283,746	195,935
Concessions	388,189	278,479
Other	127,052	36,131
	4,571,489	1,736,869
Lottario grant	499,712	—
Net funds provided by Province of Ontario	6,500,342	6,837,230
	11,571,543	8,574,099
Expenditure (note 4)		
Salaries and employee benefits (note 2)	6,671,537	5,939,258
China Show (schedule)	1,848,933	328,937
Materials – new exhibits (notes 1d and 2)	660,109	128,569
– maintenance of exhibits	438,719	475,774
Supplies and publications	464,706	405,504
Cleaning	438,720	383,879
Machinery, furniture and equipment (notes 1d and 2)	196,532	173,964
Travel and promotion	170,441	154,485
Demonstration and instruction	119,041	81,794
Consulting services	101,957	96,875
Telephone and telegraph	95,463	63,035
Advertising	88,531	77,731
Postage, freight and insurance	59,732	78,346
Equipment rentals and repairs	37,548	16,518
Film rentals and purchases	28,773	45,350
Periodicals and books	23,816	26,720
Other	131,519	97,456
	11,576,077	8,574,195
Deficiency of income over expenditure	(4,534)	(96)
Retained income, beginning of year	76,132	76,228
Retained income, end of year	71,598	76,132

See accompanying notes and schedule to financial statements.

Statement of Special Purposes Fund Receipts, Expenditure and Fund Balance

(formerly Statement of Trust Funds Income, Expenditure and Fund Balances)
for the year ended March 31, 1983

	1983 $	1982 $
Receipts		
CSTPPC fund (note 5)	472,815	—
China Book reprinting fund	50,577	—
ORDCO royalties	32,321	420
Share of proceeds from China Book sale	11,557	—
Interest	9,209	11,937
Bridge exhibit donors	6,360	7,000
Donations	1,314	5,951
Shell Canada Limited	—	35,000
The War Amputations of Canada	—	18,000
National Museums of Canada grants	—	14,388
A.S.T.C. internship program grant	—	7,743
Other	3,825	905
	587,978	101,344
Expenditure		
CSTPPC fund (note 5)	421,822	—
Exhibit running costs	6,133	34,690
Exhibit construction	—	155,069
Internship program	—	7,743
Travel	—	4,078
Other	2,052	3,600
	430,007	205,180
Excess (deficiency) of receipts over expenditure	157,971	(103,836)
Fund balance, beginning of year	47,888	151,724
Fund balance, end of year (note 5)	205,859	47,888

See accompanying notes and schedule to financial statements.

China Show Expenditure

for the year ended March 31, 1983

	1983	1982
	$	$
CSTPPC's share of surcharge	1,081,860	—
Meal allowances, accommodation and hospitality	259,019	31,671
Advertising	166,818	19,765
Supplies and publications	90,374	64,637
Materials – maintenance of exhibits	46,476	87,125
Consulting services	40,319	17,142
Security services	36,827	—
Freight, insurance and travel	33,472	32,659
Travel	2,249	28,254
Other	91,519	47,684
	1,848,933	328,937

See accompanying notes to financial statements.

1. Significant Accounting Policies

The financial statements of The Centennial Centre of Science and Technology (the Centre) present the financial position and results of activities within the framework of the accounting policies summarized below:

(a) *Expenditure*

Expenditure is reported on the accrual basis of accounting modified to allow an additional twenty-one days to pay for goods and services acquired in the fiscal year just ended. In this regard, payments to employees for the pay period which overlaps the fiscal year end date are apportioned between the two years.

(b) *Income*

Income from operations is reported on the accrual basis of accounting modified to allow an additional eight days for transfers of income to the Province of Ontario pertaining to the fiscal year just ended. Special purposes fund receipts are recorded as received.

(c) *Inventory*

Inventory is valued at the lower cost or replacement cost, determined on the first in, first out basis.

(d) *Fixed assets*

Additions to fixed assets are charged as expenditures in the year of acquisition. Fixed assets are reported on the balance sheet at a nominal value of $1.

(e) *Special purposes fund*

The special purposes fund is maintained in accordance with the principles of fund accounting. Accordingly, resources for various purposes are classified for accounting and reporting purposes into funds that are held in accordance with the objectives specified by the donors or principals. For financial reporting purposes, the funds have been classified into two fund groupings as follows:

(i) Current restricted: funds restricted by the contributors or principals for special purpose expenditures of a current nature;

(ii) Current unrestricted: unrestricted donations and interest income earned from restricted and various unrestricted funds of a current nature.

2. Fixed Assets, Other Than Building

The total accumulated costs of fixed assets, less deletions, as at March 31 are as follows:

	1983	1982
	$	$
Exhibits (including labour, material and allocated overhead)	8,797,089	7,691,118
Machinery, furniture and equipment	1,745,348	1,564,761
Artifacts	296,672	296,072
	10,839,109	9,551,951

3. Fixed Assets – Building

The capital costs provided by the Ontario Government amounting to $532,600 (1982 – $376,300) in the current year are not included in the accompanying balance sheet. For information purposes only, the accumulated costs of facilities provided by the Governments of Canada and Ontario amounted to $30,337,650 (1982 – $29,805,050) as at March 31, 1983.

The land on which the Centre is located is leased for $1 per annum on a 99 year agreement commencing July 1, 1965.

4. Additional Expenditure

Certain additional operating expenses are being met on behalf of the Centre by Ontario Government ministries and are therefore not included in the statement of operations and retained income. The expenses incurred during the fiscal year, from the records of these ministries consist of:

	1983	1982
	$	$
Building maintenance	1,572,300	1,321,600
Grants in lieu of municipal taxes	52,550	46,658
Rental of off-site facilities	14,908	14,908
Exchange premiums	7,577	22,874
	1,647,335	1,406,040

5. Special Purposes Fund

A summary of the changes in the various special purposes fund accounts for the fiscal year is as follows:

	Balance as at March 31/82	Add Receipts	Deduct Expenditures	Balance as at March 31/83
	$	$	$	$
Current restricted:				
National Museums of Canada				
Seeing brain	8,795	—	6,133	2,662
Body works	171	—	—	171
The War Amputations of Canada Bodyworks	12	—	12	—
Bridge Exhibit	7,000	6,360	—	13,360
CSTPPC fund	—	472,815	421,822	50,993
China Book reprinting fund	—	50,577	555	50,022
Share of proceeds from China Book sale	—	11,557	—	11,557
	15,978	541,309	428,522	128,765
Current unrestricted				
General	31,910	46,669	1,485	77,094
	47,888	587,978	430,007	205,859

The balance in the CSTPPC fund account represents moneys held by the Centre on behalf of the China Science and Technology Palace Preparatory Committee (CSTPPC) to cover the costs of exhibit purchases in Ontario and shared expenses of freight, insurance and travel relating to the China Show.

6. Commitments

On April 25, 1983 the Centre entered into an agreement with Kyoikusha Company Ltd. and Mitsui & Co. (Canada) Ltd. to produce a Science Circus for the sum of $700,000. The Centre received $280,000 of this sum on signing and the balance is payable on delivery by September 1, 1983. In the event that delivery is delayed beyond this date, the amount paid to the Centre could be reduced by up to $70,000.

7. Comparative Figures

Comparative figures have been reclassified where necessary to conform with the 1983 presentation.

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Facts and Figures

During the 1982/83 fiscal year, the auditorium was used 1432 times.

Auditorium attendance was 390 013.

The three lecture theatres, which are used daily during the school year for classes, were used by other groups 352 times.

Facilities were rented for private use 58 times.

The Centre was visited by 2956 tour groups (not counting school groups) totalling approximately 118 240 people.

A total of 230 754 Canadian school children visited in class groups.

In addition, 35 206 students from the United States visited in class groups.

A total of 1 618 718 people visited the Centre.

During 1982-83, arrangements for ten after-hours tours/banquets were handled with an approximate attendance of 900 people at each function.

The lecture theatres and auditorium were also used on several occasions by other Ontario government ministries and many dignitaries from China who were involved with the China show.

Outreach

Outreach exhibits travelled to 40 communities and were seen by 220 000 people. The following places were visited:

Science Circus:	Montreal, P.Q. Brockville
Mini Circus:	Atikokan Bancroft Elliot Lake Gloucester Grimsby Hornpayne Midland
Bodyworks:	Sarnia Kenora Fort Frances
Seeing Brain: (Ontario)	Burk's Falls New Liskeard Kingsville Hagersville Midland Waterloo Penetanguishene Rockland
Seeing Brain: (National)	Nanaimo, British Columbia Victoria, B.C. Skidegate, B.C. Kelowna, B.C. Vaudreuil, P.Q. Sherbrooke, P.Q. Montreal, P.Q. Trois-Rivieres, P.Q. Jonquiere, P.Q. Baie Comeau, P.Q. Quebec City Rimouski, P.Q.
Education	Northern Ontario (5 communities) Kasabonika Wunnummin Kingfisher Lake Summer Beaver Winisk Attawapiskat Moosonee Moose Factory
Emett Things:	Niagara Falls Queen's Park
Admission	Adults $3.00 Youth $2.00 Children $1.00 Family $4.00
Parking:	$1.00
Hours:	10 a.m.-6 p.m. seven days a week Closed December 25 only
Annual Report:	Approximately 1000 copies produced for distribution to Members of the Ontario Legislature and other interested individuals and organizations.

POOR

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